





Created: 2 hours, 1 minute after earthquake

1,000

USD (Millions,

**PAGER** 

100,000

Version 3

## **M 5.7, 21km SE of Chaloem Phra Kiat, Thailand** Origin Time: 2019-11-20 21:03:57 UTC (Thu 04:03:57 local) Location: 19.4377° N 101.2241° E Depth: 10.0 km

**Estimated Fatalities** 65% 10,000 1,000 100,000

and economic losses. There is a low likelihood of casualties and damage.

Green alert for shaking-related fatalities Estimated Economic Losses 65% 10,000

Estimated Population Exposed to Earthquake Shaking

							<u> </u>			
	POPULATION (k=x1000)	_*	383k*	1,139k	63k	10k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

## Population Exposure

population per 1 sq. km from Landscan

# 100.8°W 101.5°W Ban Houakhoua iang Kaer <u>Ch</u>aloem Phra Kict Thur g Chang Chiang Mang ainyabu Bo Kluea

#### PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us70006anm#pager

#### **Structures**

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

### **Historical Earthquakes**

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Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1973-08-16	396	6.4	IX(20k)	1
2007-06-02	398	6.1	IX(2k)	3
1995-07-11	356	6.8	IX(3k)	11

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

## Selected City Exposure

MMI	City	Population
٧	Chaloem Phra Kiat	<1k
٧	Thung Chang	<1k
IV	Chiang Klang	13k
IV	Sainyabuli	14k
IV	Pua	<1k
IV	Tha Wang Pha	<1k
IV	Nan	25k
IV	Ban Houakhoua	16k
IV	Chiang Khong	15k
IV	Luang Prabang	47k
Ш	Ban Houayxay	12k

bold cities appear on map.

(k = x1000)